



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0377/S, REVISION 4**

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - Tech/Ops RPD, Inc. or Amersham Corporation Models 60011, 60012 and 60013.
2. Source Description - Doubly encapsulated sources of welded Type 304 or 304L stainless steel cylindrical capsules. 60011 is 24.3 mm (0.96 in) long x 6.35 mm (0.25 in) in diameter; 60012 is 32.5 mm (1.28 in) long x 8.89 mm (0.35 in) in diameter; 60013 is 40.3 mm (1.59 in) long x 12.1 mm (0.49 in) in diameter. Inner capsules are of stainless steel or titanium, secured by stainless steel, titanium or aluminum spacer disks and springs. Construction must be in accordance with Tech/Ops Drawing No. 60060, Revision B (attached).
3. Radioactive Contents - Cobalt-60 in solid metallic form. Maximum activities are 8.14 TBq (220 Ci) for Model 60011, 20.35 TBq (550 Ci) for Model 60012, and 40.7 TBq (1100 Ci) for Model 60013.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires June 30, 2006.

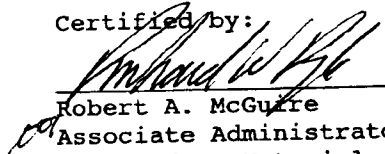
¹ "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990" , published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

CERTIFICATE USA/0377/S, REVISION 4

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated June 5, 2001 submitted by AEA Technology QSA Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified by:


Robert A. McGuire

Associate Administrator for
Hazardous Materials Safety

JUN 25 2001

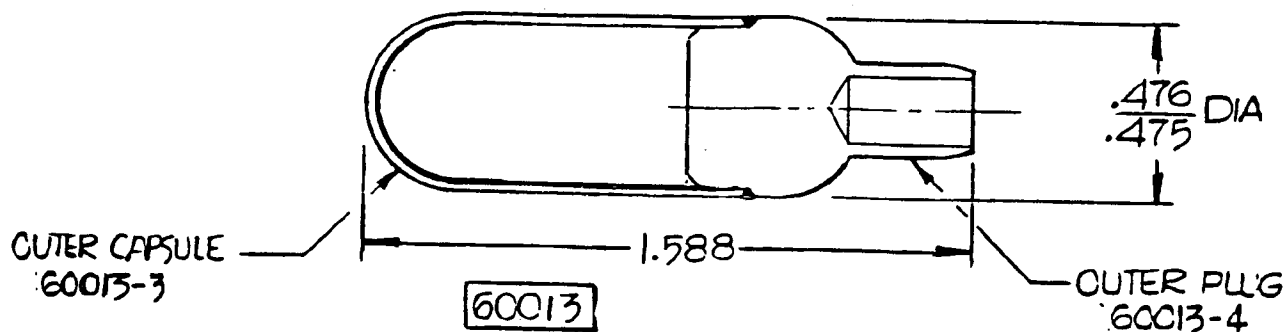
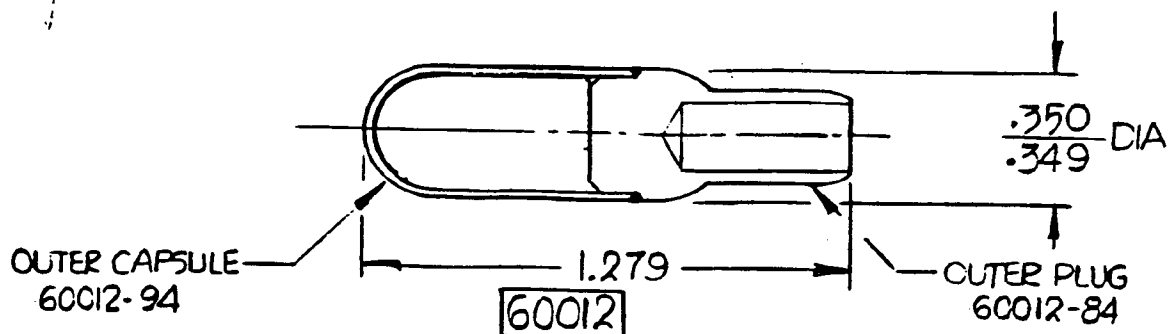
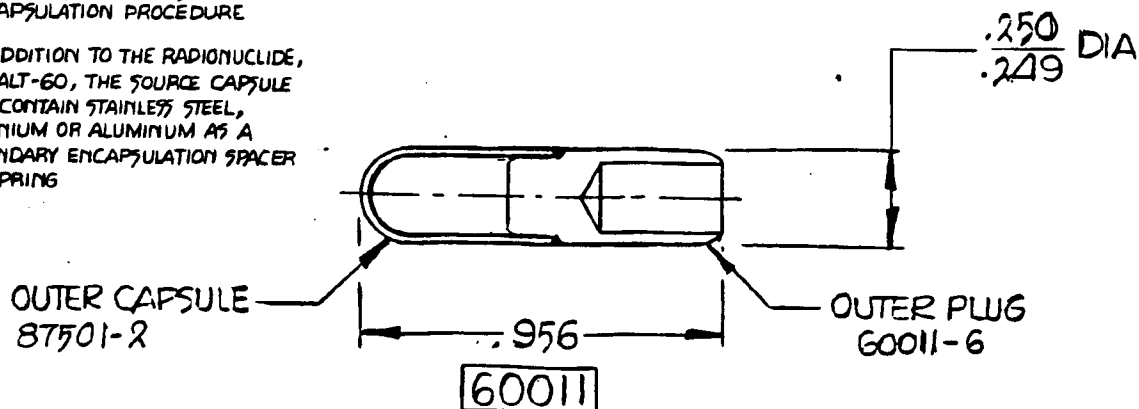
(DATE)

Revision 4 - Revision 4 issued to extend the expiration date.

NOTES:

1. EACH SOURCE CAPSULE IS SEAL WELDED IN ACCORDANCE WITH TECH/OPS STANDARD SOURCE ENCAPSULATION PROCEDURE
2. IN ADDITION TO THE RADIONUCLIDE, COBALT-60, THE SOURCE CAPSULE MAY CONTAIN STAINLESS STEEL, TITANIUM OR ALUMINUM AS A SECONDARY ENCAPSULATION SPACER OR SPRING

REV.	DATE	DESCRIPTION	
A	25 SEP 85	7L SHT 1	F/G
B	1 MAY 86	NOTES ADDED TO DESCRIBE ADDITIONAL CONTENTS	F/A



MATERIALS

FINISH

Tech/Ops

TECH/OPS, INC.
RADIATION PRODUCTS DIVISION
BURLINGTON, MA 01803

DWG TITLE

COBALT ⁶⁰ SOURCE REFERENCE

DRAWN BY

J. J. J. 25 SEP 79

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

X ±

XX ±

XXX ±

ANGLES ±

FRACTIONS ±

CHECKED BY

J. J. J. 11 Jan 86

APPROVED BY

J. J. J. 11 Jan 86

CLASSIFICATION

SIZE

DWG. NO.

A

60060

REV.

B

SCALE 2:1

SHEET 2 OF 3